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# Package Tracker

Team Members:  
Chase Grajeda(grajec)  
Jianye Peng (pengj6)  
Eddie Poon (poone)  
Aneesh (koluka)

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# Feedback

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- Missing setup instructions on GitHub Repository
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# AI

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- Model is training
  - Average accuracy currently sitting at around 42%
  - Will keep adjusting hyperparameters and data augmentations
    - Epochs
    - Learning Rate
    - Lookback range
    - Momentum
    - Batch size
    - Decay rate
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# Blockchain

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- Blockchain component is nearly finished
  - Need to integrate it with AI component
  - We already have the code to launch the smart contracts.
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# Integration:

- Created an API for the compiled smart contract
- Allow for frontend to interact with smart contract

```
#Change this to post
#Update Status of package
@app.get("/status/{status}")
def updateStatus(status: str):
    global nonce
    nonce += 1
    #Update status of package
    package_tracker_root = w3.eth.contract(address=transaction_receipt.contractAddress, abi=abi)
    previous_status = package_tracker_root.functions.displayStatus().call()
    update_status = package_tracker_root.functions.updateStatus(status).build_transaction({
        "chainId": chain_id, "from": address, "gasPrice": w3.eth.gas_price, "nonce": nonce
    })
    #Sign the transaction
    sign_update = w3.eth.account.sign_transaction(
        update_status, private_key = private_key
    )
    #Send the transaction
    send_start = w3.eth.send_raw_transaction(sign_update.rawTransaction)
    w3.eth.wait_for_transaction_receipt(send_start)
    new_status = package_tracker_root.functions.displayStatus().call()
    return { "Package was successfully updated" if (previous_status != new_status) else "Package was not updated"}

#Get status of package
@app.get("/details/")
def getDetails():
    package_tracker_root = w3.eth.contract(address=transaction_receipt.contractAddress, abi=abi)
    return {package_tracker_root.functions.displayStatus().call()}
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# Demo / Frontend:

**Welcome to Package Tracker**

[Add a Package](#) [Claim a Package](#) [View Details of a Package](#)

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# Q & A

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